

CA SUBSCRIBER PRICE

0.00 -11.72

=> d his

(FILE 'HOME' ENTERED AT 13:10:23 ON 07 JUL 2003)

FILE 'CAPLUS' ENTERED AT 13:10:30 ON 07 JUL 2003

L1 54 AROTINOIDS
L2 40 RETINO BENZOIC
L3 0 L1 AND L2
L4 62851 PHENAN?
L5 0 L1 AND L4
L6 30539 TRICYC?
L7 0 L1 AND L6
L8 298 ?AROTINOIDS
L9 209 CAROTINOIDS
L10 89 L8 NOT L9
L11 35 L10 NOT L1
L12 475881 BENZO?
L13 15 L11 AND L12
L14 0 BENZOAROTINOID?

FILE 'REGISTRY' ENTERED AT 13:44:49 ON 07 JUL 2003

L15 STRUCTURE UPLOADED
L16 0 SEARCH L15 SSS SAM
L17 0 SEARCH L15 SSS FULL
L18 STRUCTURE UPLOADED
L19 0 SEARCH L18 SSS SAM
L20 0 SEARCH L18 SSS FULL

=>

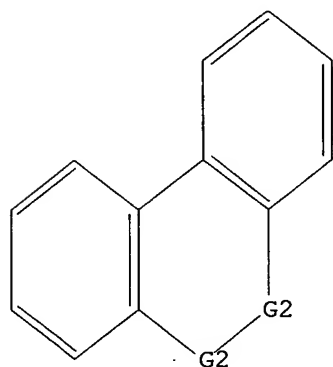
Uploading 10075845 phenanthrene core.str

L21 STRUCTURE UPLOADED

=> d 121

L21 HAS NO ANSWERS

L21 STR



G1 C,O,S,N

G2 C,O,S

G3 H

Structure attributes must be viewed using STN Express query preparation.

=> search 121 sss sam

SAMPLE SEARCH INITIATED 13:53:21 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 68314 TO ITERATE

1.5% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

32 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**

PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 40916

L22 32 SEA SSS SAM L21

=>

Uploading 10075845 phenanthrene core.str

L23 STRUCTURE UPLOADED

=> d 123 sss sam

L23 HAS NO ANSWERS

'SSS SAM' IS NOT A VALID STRUCTURE FORMAT KEYWORD

Structure Formats

SIA ----- Structure Image, Attributes, and map table if it contains
data. (Default)

SIM ----- Structure Image.

SAT ----- Structure ATtributes and map table if it contains data.

SCT ----- Structure Connection Table and map table if it contains
data.

SDA ----- All Structure Data (image, attributes, connection table and
map table if it contains data).

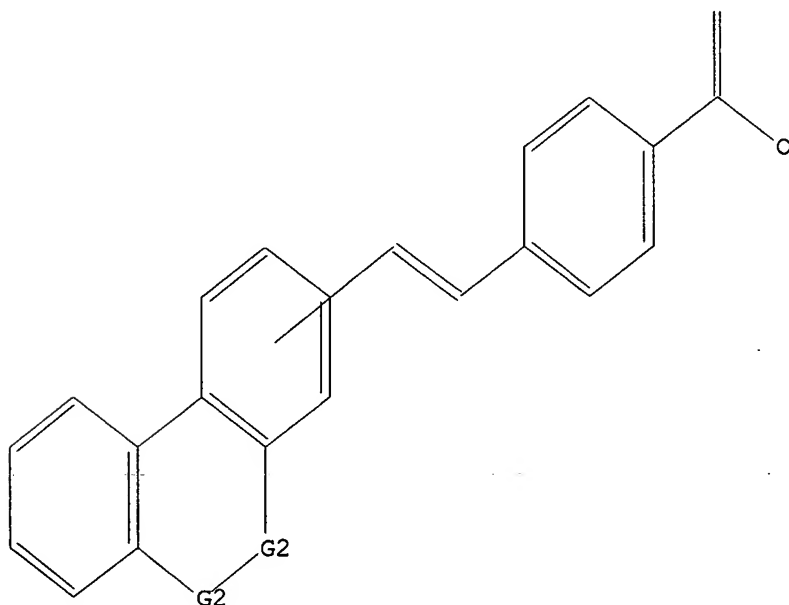
NOS ----- NO Structure data.

ENTER STRUCTURE FORMAT (SIM), NOS:end

=> d 123

L23 HAS NO ANSWERS

L23 STR



G1 C,O,S,N

G2 C,O,S

G3 H

Structure attributes must be viewed using STN Express query preparation.

=> search l23 sss sam

SAMPLE SEARCH INITIATED 13:56:42 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 562 TO ITERATE

100.0% PROCESSED 562 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 9818 TO 12662

PROJECTED ANSWERS: 0 TO 0

L24 0 SEA SSS SAM L23

=> search l23 sss full

FULL SEARCH INITIATED 13:56:52 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 11707 TO ITERATE

100.0% PROCESSED 11707 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

L25 3 SEA SSS FUL L23

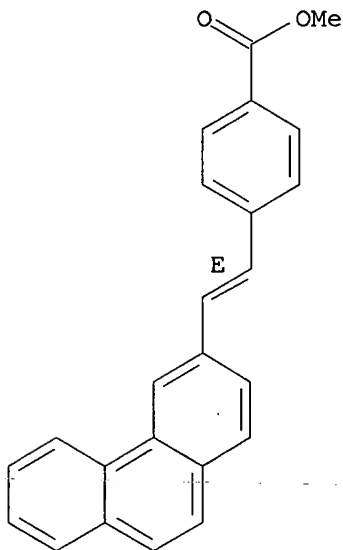
=> d scan

L25 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN Benzoic acid, 4-[2-(3-phenanthrenyl)ethenyl]-, methyl ester, (E)- (9CI)

MF C24 H18 O2

Double bond geometry as shown.

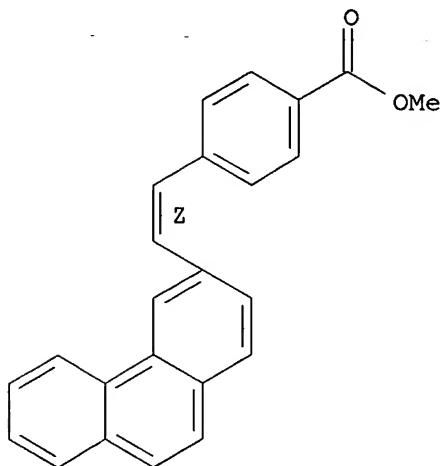


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

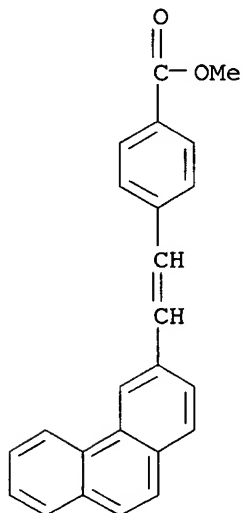
L25 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Benzoic acid, 4-[2-(3-phenanthrenyl)ethenyl]-, methyl ester, (Z)- (9CI)
MF C24 H18 O2

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L25 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Benzoic acid, 4-[2-(3-phenanthrenyl)ethenyl]-, methyl ester (9CI)
MF C24 H18 O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

451.25

529.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-11.72

FILE 'CAPLUS' ENTERED AT 13:57:39 ON 07 JUL 2003

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FILE COVERS 1907 - 7 Jul 2003 VOL 139 ISS 2

FILE LAST UPDATED: 6 Jul 2003 (20030706/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l25

L26 3 L25

=> d l26 1-3 ti fbib abs it

L26 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

TI Diastereoselective sodium borohydride reductions of (dl)-.alpha.-keto esters

AN 1986:552672 CAPLUS

DN 105:152672

TI Diastereoselective sodium borohydride reductions of (dl)-.alpha.-keto esters

AU Ben Hassine, B.; Gorsane, M.; Pecher, J.; Martin, R. H.

CS Lab. Synth. Org. Photochim., Fac. Sci. Tech., Monastir, 5000, Tunisia

SO Bulletin des Societes Chimiques Belges (1985), 94(8), 597-603

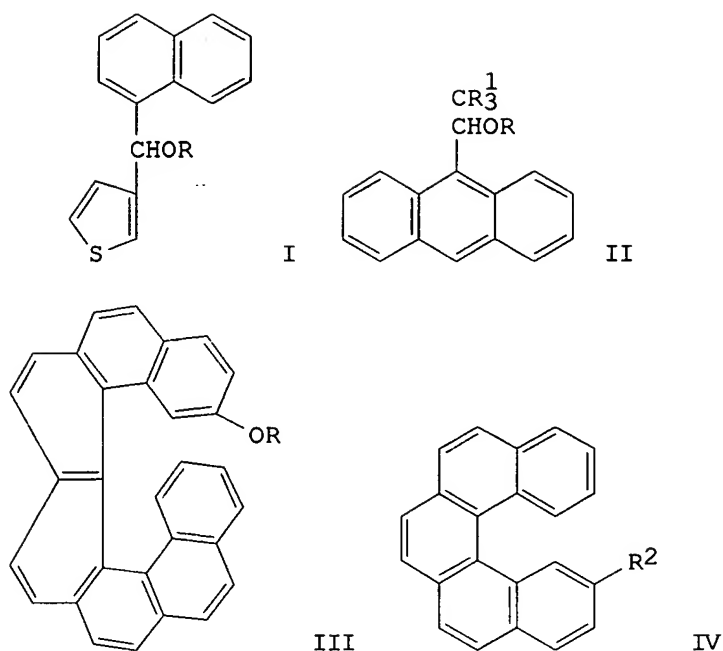
CODEN: BSCBAG; ISSN: 0037-9646

DT Journal

LA English

OS CASREACT 105:152672

GI



AB The (+-)-alcs. of naphthalene I (R = H), anthracenes II (R = H, R₁ = Cl, Br, F), and heptahelicene III (R = H) were esterified with PhCOCOCl to give the (+-)-esters I-III (R = COCOPh), which were reduced with NaBH₄ in 99:1 THF-MeOH to give 80-99% (+-)-esters I-III (R = COCHPhOH) with 54 to .apprx.100% diastereomeric excesses. III (R = H) was prepd. from pentahelicene IV (R₂ = CO₂Me) by redn. and oxidn. to IV (R₂ = CHO), coupling with 4-MeOC₆H₄CH₂P+Ph₃ Br⁻, cyclization to III (R = Me), and demethylation.

IT Stereochemistry

(of redn., of .alpha.-keto esters by sodium borohydride)

IT Esters, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(oxo, stereoselective hydride redn. of)

IT Reduction

(stereoselective, of .alpha.-keto esters by sodium borohydride)

IT 98-03-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(Grignard reaction of, with bromonaphthalene)

IT 90-11-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(Grignard reaction of, with thiophenecarboxaldehyde)

IT 104-93-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(bromination of)

IT 100-52-7, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

-(condensation of, with tolylmethylphosphonium salt)

IT 25726-04-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(esterification by, of .alpha.-keto esters)

IT 65487-67-4 99373-08-7 99373-09-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(esterification of, by phenylglyoxyloyl chloride)

IT 2378-86-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and condensation of, with benzaldehyde)

IT 33895-27-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and condensation of, with formylbenzoate)

IT 104449-72-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and condensation of, with methoxyphenylmethylphosphonium salt)

IT 1530-38-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and condensation of, with pentahelicenecarboxaldehyde)

IT 1571-08-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and condensation of, with phenanthrylmethylphosphonium salt)

IT 2746-25-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and condensation of, with triphenylphosphine)

IT 1860-17-9P **104449-71-0P** 104449-73-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and cyclization of)

IT 98481-07-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and demethylation of)

IT 104449-56-1P 147022-27-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and esterification of, by phenylglyoxyloyl chloride)

IT 104449-75-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and oxidn. of)

IT 92089-83-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and redn. of)

IT 104449-57-2P 104449-58-3P 104449-59-4P 104449-60-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and redn. of, stereochem. of)

IT 1657-45-0P **38082-27-8P** 104449-61-8P 104449-62-9P
104449-63-0P 104449-64-1P 104449-65-2P 104449-66-3P 104449-67-4P
104449-68-5P 104449-69-6P 104449-70-9P 104449-76-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 832-71-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn., bromination, and reaction of, with triphenylphosphine)

IT 104-81-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with triphenylphosphine)

L26 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

TI PHotochemical organic synthesis using sunlight: a diarylethylene to
helicene photocyclization in Monastir (Tunisia)

AN 1984:551155 CAPLUS

DN 101:151155

TI Photochemical organic synthesis using sunlight: a diarylethylene to
helicene photocyclization in Monastir (Tunisia)

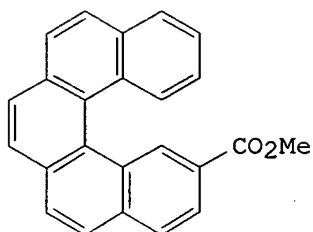
AU M'Henni, A.; Ben Hassine, B.; Gorsane, M.

CS Lab. Synth. Org. Photochim., Fac. Sci. Tech. Monastir, Monastir, Tunisia

SO Journal de la Societe Chimique de Tunisie (1984), 11, 51-2

CODEN: JSCTDP; ISSN: 0253-1208

DT Journal
LA English
OS CASREACT 101:151155
GI



AB Sunlight was used for the photocyclization of 1-(4-methoxycarbonylphenyl)-
2-(3-phenanthryl)ethylene to give the pentahelicene I.
IT Ring closure and formation
(photochem., of diarylethylene to pentahelicene deriv. using sunlight)
IT **92089-82-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(photocyclization of, using sunlight)
IT 92089-83-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by photocyclization of diarylethylene using sunlight)

L26 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
TI Helicene series. XVII. NMR evidence of helicene-like conformations in
the cis-1,2-diarylethylenes
AN 1972:539014 CAPLUS
DN 77:139014
TI Helicene series. XVII. NMR evidence of helicene-like conformations in
the cis-1,2-diarylethylenes
AU Martin, R. H.; Defay, Nicole; Figeys, H. P.; Le Van, K.; Ruelle, J. J.;
Schurter, J. J.
CS Fac. Sci., Univ. Libre Bruxelles, Brussels, Belg.
SO Helvetica Chimica Acta (1972), 55(6), 2241-4
CODEN: HCACAV; ISSN: 0018-019X
DT Journal
LA English
AB The cis and trans isomers of 1,2-diarylethylene, precursors of helicenes,
were examd. by NMR. The obsd. differences in chem. shifts, specific
solvent effects, and steric effects were explained by the contribution of
helicene-like conformers in the cis isomers.
IT Conformation and Conformers
(helicene-like, of diarylethylenes, NMR in relation to)
IT 20508-11-6 35160-92-0 35160-93-1 35160-94-2 38082-23-4
38082-24-5 38082-25-6 38082-26-7 **38082-27-8** 38082-28-9
38082-29-0
RL: PRP (Properties)
(helicene-like conformation of, NMR in relation to)

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
10.66	539.79

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
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CA SUBSCRIBER PRICE

ENTRY
-1.95

SESSION
-13.67

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:00:57 ON 07 JUL 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:
x
Welcome to STN International! Enter x:
LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 14:25:47 ON 07 JUL 2003
FILE 'CAPLUS' ENTERED AT 14:25:47 ON 07 JUL 2003
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	10.66	539.79
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.95	-13.67

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	10.66	539.79
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.95	-13.67

FILE 'CAPLUS' ENTERED AT 14:25:57 ON 07 JUL 2003
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FILE COVERS 1907 - 7 Jul 2003 VOL 139 ISS 2
FILE LAST UPDATED: 6 Jul 2003 (20030706/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> save temp all retsrch/l
L# LIST L1-L26 HAS BEEN SAVED AS 'RETSRCH/L'

=> FIL STNGUIDE
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.42	540.21

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-13.67

CA SUBSCRIBER PRICE

FILE 'STNGUIDE' ENTERED AT 14:26:26 ON 07 JUL 2003
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul 4, 2003 (20030704/UP).

=> DIS SAVED
NAME

CREATED

NOTES/TITLE

ALXYLATIN/L	13 DEC 2001	9 L-NUMBERS
ESTERODOR/L	05 SEP 2002	42 L-NUMBERS
INDIUMCL3/A	30 MAY 2001	1 ANSWER IN FILE REGISTRY
LTWENTAUGFOR/A	04 AUG 2001	72 ANSWERS IN FILE CAPLUS
NEOTAMECRYST/A	24 APR 2001	59 ANSWERS IN FILE CAPLUS
NVLARMFULGEN/A	19 APR 2001	196 ANSWERS IN FILE REGISTRY
POHBENZALDEH/A	10 JUL 2001	5519 ANSWERS IN FILE CAPLUS
PROSTACMPD15/A	01 AUG 2001	34 ANSWERS IN FILE CAPLUS
RETSRCH/L	TEMP	26 L-NUMBERS
STILLEAPP/L	07 JAN 2002	17 L-NUMBERS
TWOAMINOPOLY/Q	16 APR 2001	UPLOADED STRUCTURE

=> DIS SAVED/S
NO SAVED SDI REQUESTS

=> FIL CAPLUS
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.06	540.27

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-13.67

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FILE COVERS 1907 - 7 Jul 2003 VOL 139 ISS 2
FILE LAST UPDATED: 6 Jul 2003 (20030706/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.42	540.69

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-13.67

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 14:26:59 ON 07 JUL 2003